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Procathepsin K, mouse recombinant protein

Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2
Catalog # PBV10005r

Specification

Procathepsin K, mouse recombinant protein - Product info

Primary Accession	P43235
Concentration	2.5
Calculated MW	35.5 kDa KDa

Procathepsin K, mouse recombinant protein - Additional Info

Gene ID	1513
Gene Symbol	CATK

Other Names
Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2

Gene Source	Mouse
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes

Target/Specificity
Procathepsin K

Format
Liquid

Storage
-80°C; 2.5 mg/ml solution in 25 mM Na2HPO4 and 500 mM NaCl (pH 7.0).

Procathepsin K, mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Procathepsin K, mouse recombinant protein - Images

Procathepsin K, mouse recombinant protein - Background

Cathepsin K is a member of the papain cysteine proteinase family and has been identified as the

predominant proteinase responsible for the resorption of the bone matrix. The enzyme cleaves proteins such as collagen type I, collagen type II and osteonectin and therefore plays a role in bone remodeling and resorption in diseases such as osteoporosis, osteolytic bone metastasis and rheumatoid arthritis (Bromme and Okamoto, 1995; Drake, F. et al 1996; Bossard et al, 1996). Cathepsin K is synthesized as an inactive proenzyme (35.1 kDa) that is converted to its mature active form (23.6 kDa) by proteolytic cleavage of its 99-amino-acid propeptide domain. The in-vitro processing of procathepsin K to mature cathepsin K is autocatalytic.